Page 50, line 43, immediately after "CGAAGCTTTCACAGGCCCAGCC CAACTCC" please insert -- (SEQ. ID NO:147) --.

Page 50, line 44, immediately after "GCGGATCCAGAGCCACGTCCTA CGTC" please insert -- (SEQ. ID NO:148) --.

Page 50, line 45, immediately after "GCGGATCCGTTCAGATGCCGGC CCAC" please insert -- (SEQ. ID NO:149) --.

Page 56, line 24, immediately after "(PXXXXPXXP;PEMEPPRRP)" please insert -- (SEQ. ID NOs: 93 and 150 respectively) --.

NOs: 93 and 150 respectively) --.

In the Claims:

Please cancel claims 5, 8, 20, 21, 30, 28 and 48. Please amend the application as follows:

- 3. (Amended) The nucleic acid molecule of claim 1, wherein the nucleic acid molecule comprises the sequence presented in Figure 1 (SEQ ID No. 1), or hybridizes under normal stringency conditions to the complement of the sequence presented in Figure 1 (SEQ ID Nos: 34, 36, 38, 41, 43, 45, 47, 49, 51, 55, 63, 67, 71, 75, 79, 83), provided that the nucleic acid molecule is not EST AA281296.
- 4. (Amended) The nucleic acid molecule of claim 1, wherein the nucleic acid molecule encodes the amino acid sequence presented in Figure 1 (SEQ ID No. 2) or 11 (SEQ ID Nos: 35, 37, 39, 42, 44, 46, 48, 50, 52-54, 56-58, 60-62, 64-66, 68-70, 72-74, 76-78, 80-82, 84-86), or variant thereof, or hybridizes under normal stringency conditions to the complement of the sequences thereof, provided that the nucleic acid molecule is not EST AA281296.

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^{6. (}Amended) An isolated nucleic acid molecule comprising any of the sequences presented in Figure 10 (SEQ ID Nos: 18, 23, 25, 27, 29, 30, 32, 33), or hybridizes under normal stringency conditions to the complement of the sequences thereof.

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- 7. (Amended) An oligonucleotide comprising from 10 to 100 contiguous nucleotides from the sequence presented in Figure 1 (SEQ ID No. 1), Figure 10 (SEQ ID Nos: 18, 23, 25, 27, 29, 30, 32, 33), or the complements thereof. [or its complement].
- 9. (Amended) The oligonucleotide of claim 7 [either of claims 7 or 8], wherein the oligonucleotide is labeled.
- 11. (Amended) An expression vector, comprising a heterologous promoter operably linked to a nucleic acid molecule according to either of claims 1 or 6 [any of claims 1-6].
 - 13. (Amended) A host cell containing a vector according to <u>claim</u> [either claims] 11 [or 12].
 - 18. (Amended) The protein of claim 16, wherein the protein comprises one of the amino acid sequences [sequence] presented in Figure 1 (SEQ ID No. 2) or 11 (SEQ ID Nos: 35, 37, 39, 42, 44, 46, 48, 50, 52-54, 56-58, 60-62, 64-66, 68-70, 72-74, 76-78, 80-82, 84-86), or variant thereof.
 - 27. (Amended) A nucleic acid molecule [probe] that is capable of specifically hybridizing to a nucleic acid molecule encoding a vertebrate telomerase under conditions of normal stringency[, provided that the probe does not hybridize to nucleotides 1624-2012 presented in Figure 1].
- 28. (Amended) The <u>nucleic acid molecule</u> [probe] of claim 27, wherein the <u>nucleic acid molecule</u> [probe] is from 12 to 200 nucleotides long.
 - 29. (Amended) The <u>nucleic acid molecule</u> [probe] of claim 27, wherein the <u>nucleic acid molecule</u> [probe] is from 20 to 50 nucleotides long.
 - 31. (Amended) The <u>nucleic acid molecule</u> [probe] of claim 17, wherein the

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- 33. (Amended) The primers of claim 32, wherein the nucleic acid molecule comprises the sequence presented in Figure 1 (SEQ ID No. 1) or its complement.
- 34. (Amended) The primers of claim 32, wherein the nucleic acid molecule comprises any of the sequences presented in Figure 11 (SEQ ID Nos: 35, 37, 39, 42, 44, 46, 48, 50, 52-54, 56-58, 60-62, 64-66, 68-70, 72-74, 76-78, 80-82, 84-86) or the complements thereof.
- 36. (Amended) The primers of claim 35, wherein the primers flank nucleotide 222, 1950, 2131-2166, 2287-2468, 2843, or 3157 as presented in Figure 1 (SEQ ID No: 1).
- 37. (Amended) The primers of claim 36, wherein only one of each primer pair flanks nucleotide 222, 1950, 2131-2166, 2287-2468, 2843, or 3157 as presented in Figure 1 (SEQ ID No: 1) and the other primer of the pair has sequence corresponding to one of the sequences presented in Figure 10 (SEQ ID Nos: 18, 23, 25, 27, 29, 30, 32, 33) or complements thereof.
- 44. (Amended) The method of claim 43, wherein the primers are Htel Intron T and Htel 723B or Htel335T and Htel1022B.

of the nucleic acid sequences presented in Figure 1 (SEQ ID No. 2) or 11 (SEQ ID Nos: 35, 37, 39, 42, 44, 46, 48, 50, 52-54, 56-58, 60-62, 64-66, 68-70, 72-74, 76-78, 80-82, 84-86) or hybridizes under normal stringency conditions to the complement of the sequences [Figure 11].

REMARKS

Claims 1-4, 6,7,9-19, 22-29, 31-37, 39-44 and 46-64 are pending in the instant application. Claims 3,4,6,7,9,11,13,18,27,28,29,31,33,34 and 36 have been amended. Claims